

WHAT IS CLAIMED IS:

1. A remote process seal system comprising:
a process pressure transmitter having at least one
pressure inlet;
5 a remote process seal assembly in fluid
communication with the at least one pressure
inlet of the process pressure transmitter,
the remote process seal assembly being
adapted to convey a process fluid pressure
10 through a fill fluid to the at least one
pressure inlet while isolating the process
fluid from the at least one pressure inlet;
and
a getter disposed to contact fill fluid within the
15 system.
2. The system of claims 1, wherein the getter
is disposed in the remote process seal assembly.
- 20 3. The system of claim 2, wherein the getter is
disposed proximate a pressure transducing portion of
the remote process seal assembly.
4. The system of claim 2, wherein the getter is
25 disposed within a recess in the remote process seal
assembly.
5. The system of claim 4, and further
comprising a screen mounted over the getter.

6. The system of claim 1, wherein the getter is a material flashed upon a surface of the remote process seal assembly.
- 5 7. The system of claim 5, wherein the screen is metallic.
8. The system of claim 1, wherein the getter is polymeric getter.
- 10 9. The system of claim 1, wherein the fill fluid is silicone oil.
10. The system of claim 1, wherein the remote seal assembly is constructed from stainless steal.
- 15 11. Wherein the system of claim 1, wherein the conductivity of the getter is measured and is a diagnostic indication of the product life of the remote seal assembly.
- 20 12. A remote process seal assembly comprising:
 an isolation diaphragm welded to a plate member to form a chamber therein; and
25 a getter disposed within the chamber and adapted to contact an incompressible fill fluid when such fluid is introduced to the remote process seal assembly.

13. The assembly of claim 12, wherein the getter
is disposed within a recess in the chamber.
14. The assembly of claim 12, wherein the plate
5 member includes convolutions opposing an interior
surface of the isolator diaphragm.
15. The assembly of claim 12, and further
comprising a screen disposed between the getter and the
10 isolator diaphragm.
16. The assembly of claim 12, wherein the plate
member includes a channel extending under the getter.
- 15 17. A method of maintaining a fill fluid in a
process system, the method comprising:
 contacting the incompressible fill fluid
 with a getter to absorb hydrogen released
 into the incompressible fill fluid.
20
18. The method of claim 15, wherein the
incompressible fill fluid is oil.
19. The method of claim 18, wherein the oil is a
25 silicone oil.
20. The method of claim 17, wherein the fill
fluid is disposed within a remote process seal system.

21. The method of claim 17, wherein the fill fluid is disposed within a pressure transmitter.